

Fig. 1

(# Rounds)

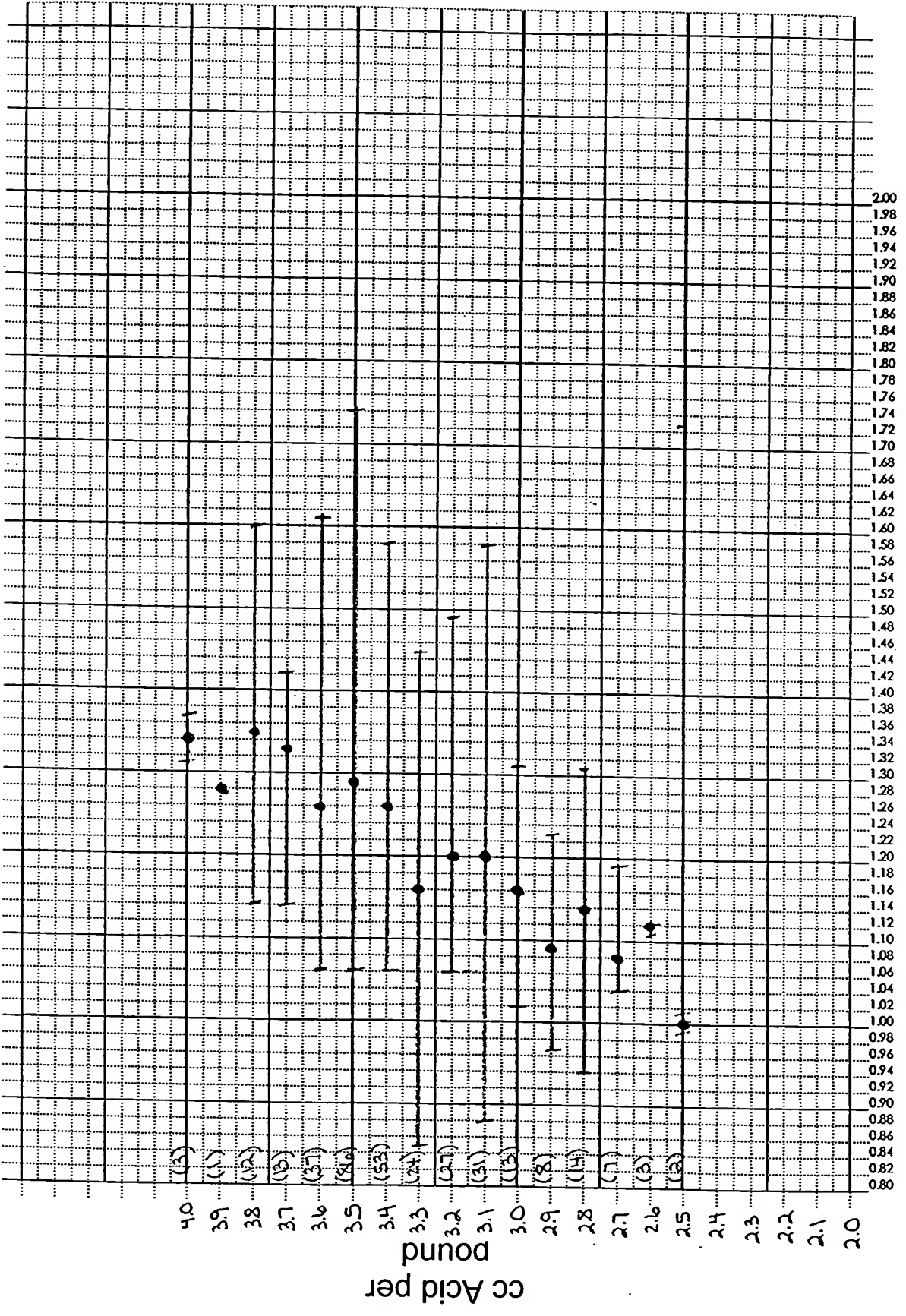


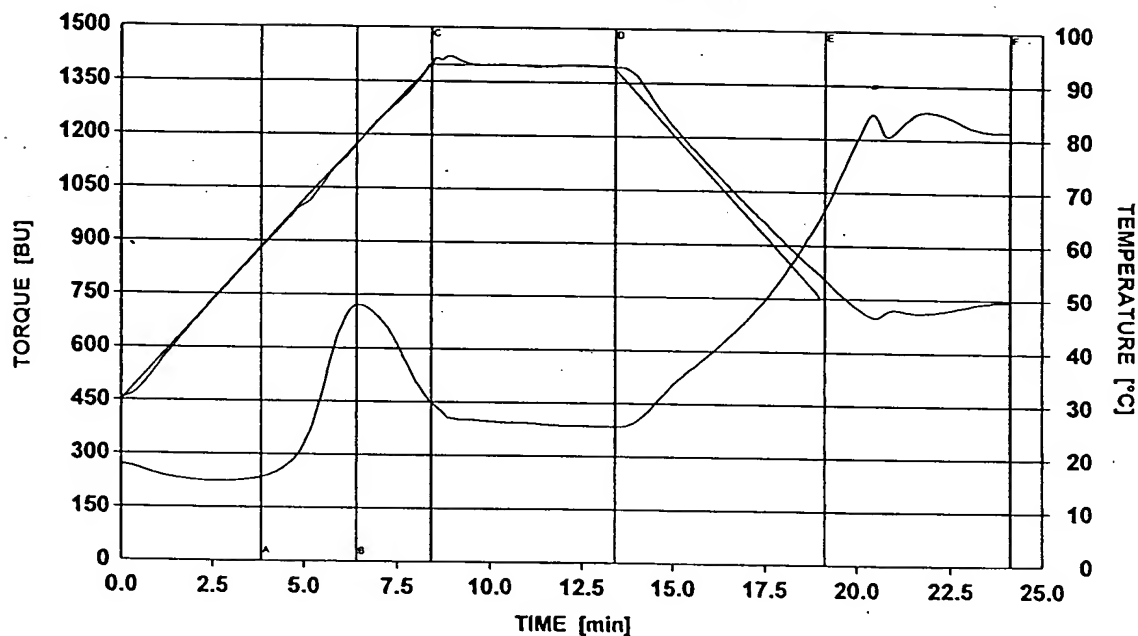
Fig. 2

BRABENDER MICRO VISCO-AMYLO-GRAPH

Parameter

Operator	:	ar	Date	:	12/4/2003
Sample	:	PO 28982-11 Dec 4	Method	:	33% Full Chart
Moisture	:	14 [%]	Correction	:	14 [%]
Sample weight	:	40 [g]	Corr. to 14%	:	40 [g]
Water	:	80 [ml]	Corr. to 14%	:	80 [ml]
Note	:	ADM MILLING CO.			
Note	:	MVAG SER.#010102			
Speed	:	300 [1/min]	Meas. range	:	135 [cmg]
Start temperature	:	30 [°C]	Heat./Cool. rate	:	7.5 [°C/min]
Max. temperature	:	93 [°C]	Upp. hold. time	:	5 [min]
End temperature	:	50 [°C]	Fin. hold. time	:	5 [min]

MEASURING RANGE : 135 [cmg]



Evaluation

Point	Name	Time [HH:MM:SS]	Torque [BU]	Temperature [°C]
A	Beginning of gelatinization	00:03:50	233	58.4
B	Maximum viscosity	00:06:25	720	77.8
C	Start of holding period	00:08:24	447	92.7
D	Start of cooling period	00:13:24	383	92.9
E	End of cooling period	00:19:08	1003	53.5
F	End of final holding period	00:24:08	1223	49.6
B-D	Breakdown		337	
E-D	Setback		607	

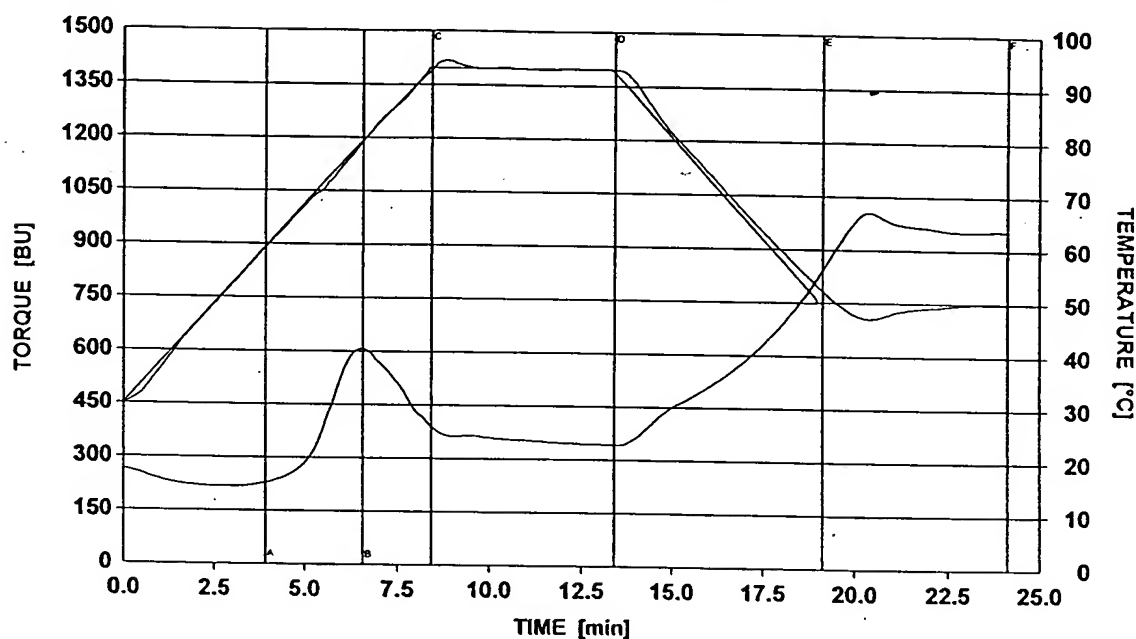
Fig. 3

BRABENDER MICRO VISCO-AMYLO- GRAPH

Parameter

Operator	:	ar	Date	:	12/5/2003
Sample	:	PO 28983-11 Dec 5	Method	:	33% Full Chart
Moisture	:	14 [%]	Correction	:	14 [%]
Sample weight	:	40 [g]	Corr. to 14%	:	40 [g]
Water	:	80 [ml]	Corr. to 14%	:	80 [ml]
Note	:	ADM MILLING CO.			
Note	:	MVAG SER.#010102			
Speed	:	300 [1/min]	Meas. range	:	135 [cmg]
Start temperature	:	30 [°C]	Heat/Cool. rate	:	7.5 [°C/min]
Max. temperature	:	93 [°C]	Upp. hold. time	:	5 [min]
End temperature	:	50 [°C]	Fin. hold. time	:	5 [min]

MEASURING RANGE : 135 [cmg]



Evaluation

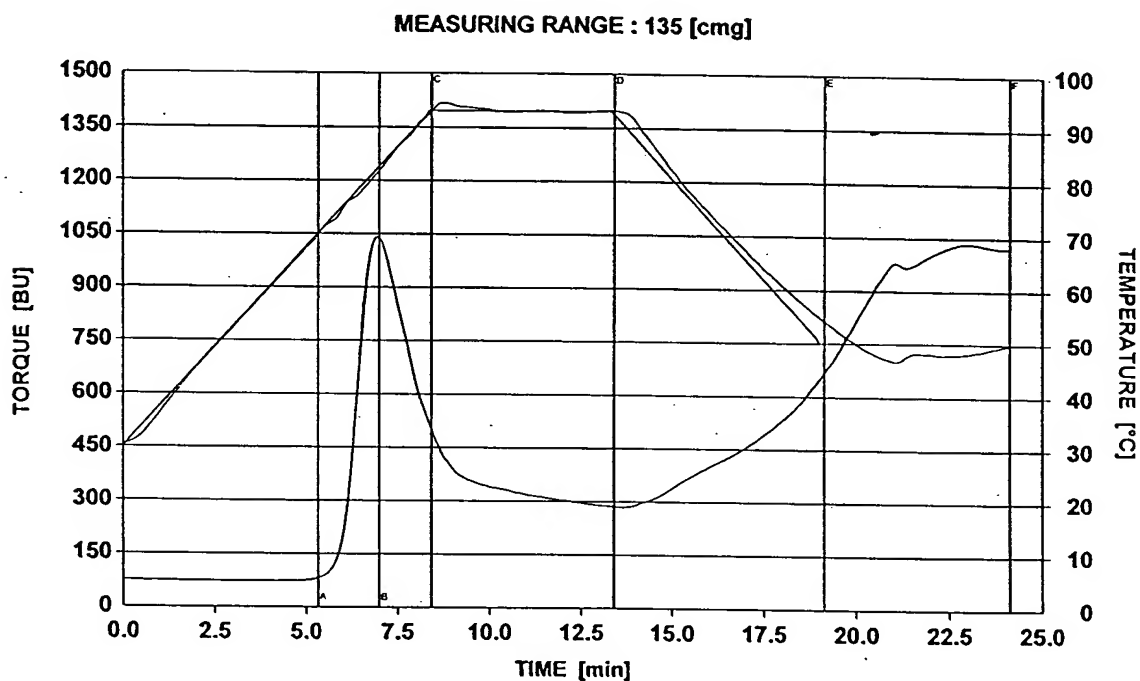
Point	Name	Time [HH:MM:SS]	Torque [BU]	Temperature [°C]
A	Beginning of gelatinization	00:03:55	227	59.1
B	Maximum viscosity	00:06:35	606	79.1
C	Start of holding period	00:08:24	388	92.7
D	Start of cooling period	00:13:24	341	92.9
E	End of cooling period	00:19:08	845	52.1
F	End of final holding period	00:24:08	953	49.9
B-D	Breakdown		265	
E-D	Setback		493	

Fig. 4

BRABENDER MICRO VISCO- AMYLO- GRAPH

Parameter

Operator	:	ar	Date	:	12/3/2003
Sample	:	PO 28975-95 Dec 3	Method	:	LC-295 Full
Moisture	:	14 [%]	Correction	:	14 [%]
Sample weight	:	17 [g]	Corr. to 14%	:	17 [g]
Water	:	100 [ml]	Corr. to 14%	:	100 [ml]
Note	:	ADM MILLING CO.			
Note	:	MVAG SER.#010102			
Speed	:	300 [1/min]	Meas. range	:	135 [cmg]
Start temperature	:	30 [°C]	Heat/Cool. rate	:	7.5 [°C/min]
Max. temperature	:	93 [°C]	Upp. hold. time	:	5 [min]
End temperature	:	50 [°C]	Fin. hold. time	:	5 [min]



Evaluation

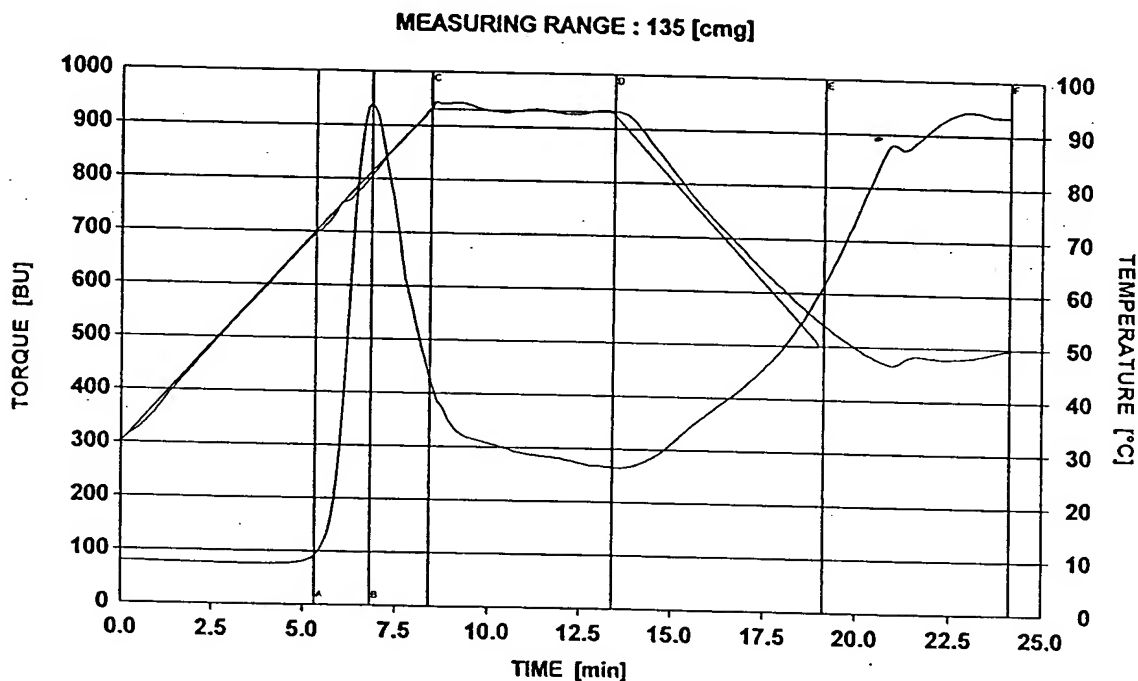
Point	Name	Time [HH:MM:SS]	Torque [BU]	Temperature [°C]
A	Beginning of gelatinization	00:05:20	80	69.8
B	Maximum viscosity	00:07:00	1041	81.6
C	Start of holding period	00:08:24	498	92.9
D	Start of cooling period	00:13:24	285	93.1
E	End of cooling period	00:19:08	671	54.0
F	End of final holding period	00:24:08	1021	49.8
B-D	Breakdown		754	
E-D	Setback		372	

Fig. 5

BRABENDER MICRO VISCO-AMYLO-GRAPH

Parameter

Operator	:	ar	Date	:	12/4/2003
Sample	:	PO 28981-95 Dec 4	Method	:	LC295, 135 cmg
Moisture	:	14 [%]	Correction	:	14 [%]
Sample weight	:	17 [g]	Corr. to 14%	:	17 [g]
Water	:	100 [ml]	Corr. to 14%	:	100 [ml]
Note	:	ADM MILLING CO.			
Note	:	MVAG SER.#010102			
Speed	:	300 [1/min]	Meas. range	:	135 [cmg]
Start temperature	:	30 [°C]	Heat/Cool. rate	:	7.5 [°C/min]
Max. temperature	:	93 [°C]	Upp. hold. time	:	5 [min]
End temperature	:	50 [°C]	Fin. hold. time	:	5 [min]



Evaluation

Point	Name	Time [HH:MM:SS]	Torque [BU]	Temperature [°C]
A	Beginning of gelatinization	00:05:20	91	69.6
B	Maximum viscosity	00:06:50	939	80.4
C	Start of holding period	00:08:24	424	92.9
D	Start of cooling period	00:13:24	265	93.1
E	End of cooling period	00:19:08	619	53.9
F	End of final holding period	00:24:08	934	49.8
B-D	Breakdown		674	
E-D	Setback		342	

Fig. 6